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C1
C2
(c) an imaging device configured to acquire at least one image of the mixture,
and

(d) an image analysis system that uses code information from the image to interpret experiments on the analytes.

27. (Twice Amended) The device of claim 26, wherein the mixture comprises three or more distinctively coded carriers.

29. (Twice Amended) The device of claim 28, wherein the colored code comprises at least two distinct colored optically identifiable marks.

02
30. (Twice Amended) The device of claim 26, wherein the carriers are formed from fused glass fibers.

31. (Twice Amended) The device of claim 26, wherein the carriers comprise nanocrystals.



34. (Twice Amended) The device of claim 26, wherein the imaging device uses a CCD camera device to acquire the at least one image.

03
35. (Twice Amended) The device of claim 26, wherein the imaging device comprises a microscope.


36. (Twice Amended) The device of claim 26, wherein the imaging device comprises a confocal optics structure.

04
40. (Twice Amended) The device of claim 26, wherein the code on each of the at least two carriers comprises a distinctive spatial arrangement of optically identifiable marks.

Applicants have attached a separate, marked-up version of the amended claims, showing changes relative to the previous version, in accordance with 37 C.F.R. § 1.121.


 Please add the following new claims 54-59: 

--54. The device of claim 26, wherein the analyte is a cell.

 55. An array device comprising

(a) an examination site having a surface,

(b) a mixture of at least two carriers disposed on the surface, each of the at least two carriers being formed of fused glass fibers and having an optically detectable code that distinguishes it from the other carrier, and each of the at least two carriers carrying an analyte that is identifiable by the respective code on the carrier,

 (c) an imaging device configured to acquire at least one image of the mixture, and

(d) an image analysis system that uses code information from the image to interpret experiments on the analytes.

56. The device of claim 55, wherein the carriers have a shape that is flat.

57. The device of claim 55, wherein the fused glass fibers define the code.

58. The device of claim 55, wherein the colored code comprises at least two distinct colored optically identifiable marks.

59. The device of claim 55, wherein the code on each of the at least two carriers comprises a distinctive spatial arrangement of optically identifiable marks.--